Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-57. Cancelled

- 58. (Currently Amended) An isolated nucleic acid comprising a polynucleotide encoding a soluble fragment of the polypeptide of SEQ ID NO:2, or a variant thereof, wherein expression of said polynucleotide in a cell produces a said soluble fragment polypeptide that is capable of decreasing inhibition of axonal growth of a central nervous system neuron.
- 59. (Currently Amended) The isolated <u>polynucleotide</u> nucleic acid of claim 58, <u>wherein the comprising a polynucleotide encoding a soluble fragment of SEQ ID NO:2 is selected from the group consisting of:</u>
- (a) a polypeptide comprising amino acids 34-532 of SEQ ID NO:2;
- (b) a polypeptide comprising amino acids 417-531 of SEQ ID NO:2;
- (c) a polypeptide comprising amino acids 425-531 of SEQ ID NO:2;
- (d) a polypeptide comprising amino acids 1-531 of SEQ ID NO:2;
- (e) a polypeptide comprising amino acids 433-493 of SEQ ID NO:2;
- (f) a polypeptide comprising an Sp35 LRR domain, an Sp35 basic region C-terminal to the LRR domain, and an Sp 35 immunoglobulin (Ig) domain C-terminal to the basic region, but lacks a transmembrane domain;

(g) a polypeptide comprising an Sp35 Ig domain, but lacking an Sp35 LRR domain, an Sp35 basic region, a transmembrane domain, and a cytoplasmic domain;

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- (h) a polypeptide comprising an Sp35 LRR domain, but lacking an Sp35 Ig domain,
 an Sp35 basic region, a transmembrane domain, and a cytoplasmic domain, and
- (i) a polypeptide as in (f), further lacking a cytoplasmic domain;
- (i) a polypeptide comprising amino acids 1-576 of SEQ ID NO:2;
- (j) a polypeptide comprising amino acids 454-458 of SEQ ID NO:2; and
- (k) a polypeptide comprising amino acids 453-458 of SEQ ID NO:2; wherein said soluble fragment is capable of decreasing inhibition of axonal growth of a central nervous system neuron.
- 60. (Currently Amended) The <u>polynucleotide nucleic acid</u> of claim 58, wherein said polynucleotide further comprising a polynucleotide encodes encoding a heterologous polypeptide fused to said soluble fragment of SEQ ID NO:2.
- 61. (Currently Amended) The <u>polynucleotide nucleic acid</u> of claim 60, wherein said heterologous polypeptide is selected from the group consisting of an Ig polypeptide, a serum albumin polypeptide, a targeting polypeptide, a reporter polypeptide, a human NgR1-binding polypeptide, one or more cysteine residues, and a purification-facilitating polypeptide.
- 62. (Currently amended) The polynucleotide nucleic acid of claim 61, wherein said heterologous polypeptide is selected from the group consisting of

immunoglobulin Fc, human serum albumin or fragment thereof, a histidine tag, an oligodendrocyte-myelin glycoprotein or fragment thereof, a myelin associated glycoprotein or fragment thereof, and a Nogo 66 glycoprotein or fragment thereof.

63. Cancelled

- 64. (Currently Amended) A composition comprising a pharmaceutically acceptable carrier and the <u>polynucleotide nucleic acid</u> of claim 58.
- 65. (Currently Amended) A vector comprising the <u>polynucleotide</u> <u>nucleie</u> acid of claim 58.
- 66. (Currently Amended) The vector of claim 65, wherein said polynucleotide nucleic acid is operatively linked to an expression control sequence.
- 67. (Previously Presented) The vector of claim 66, wherein said vector is a viral vector.
- 68. (Previously Presented) The vector of claim 67, wherein said viral vector is selected from the group consisting of an adenoviral vector, a lentiviral vector, a baculoviral vector, an Epstein Barr viral vector, a papovaviral vector, a vaccinia viral vector, and a herpes simplex viral vector.

- 69. (Previously Presented) A host cell comprising the vector of claim 66.
- 70. (Currently amended) The host cell of claim 69, which expresses said soluble polypeptide fragment.
- 71. (Currently Amended) An isolated polypeptide encoded by the polynucleotide nucleic acid of claim 58.
- 72. (Previously Presented) The polypeptide of claim 71, wherein said polypeptide is produced synthetically.
- 73. (Currently Amended) The polypeptide of claim 104 71, wherein said polypeptide is cyclized.
- 74. (Previously Presented) The polypeptide of claim 71, wherein said polypeptide is conjugated to a polymer.
- 75. (Previously Presented) The polypeptide of claim 74, wherein said polymer is selected from the group consisting of a polyalkylene glycol, a sugar polymer, and a polypeptide.
- 76. (Previously Presented) The polypeptide of claim 75, wherein said polyalkylene glycol is polyethylene glycol (PEG).

- 77. (Previously Presented) The polypeptide of claim 74, wherein said polypeptide is conjugated to 1, 2, 3 or 4 polymers.
- 78. (Previously Presented) The polypeptide of claim 77, wherein the total molecular weight of the polymers is from 20,000 Da to 40,000 Da.
 - 79. Cancelled.
- 80. (Currently amended) A composition comprising a pharmaceutically acceptable carrier and the polypeptide of claim 71, wherein said polypeptide decreases inhibition of axonal growth of a central nervous system (CNS) neuron.
- 81. (Previously Presented) The composition of claim 80, further comprising a supplementary active compound selected from the group consisting of an anti-NgR1 antibody or binding fragment thereof and a soluble NgR1 polypeptide.
 - 82-99. Cancelled.
- 100. (Previously Presented) A method for producing an Sp35 polypeptide comprising culturing the host cell of claim 70 and recovering said Sp35 polypeptide from the culture medium.

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- 101. (New) The isolated polynucleotide of claim 58, wherein the soluble fragment of SEQ ID NO:2 is selected from the group consisting of:
 - (a) a polypeptide consisting of amino acids 454-458 of SEQ ID NO:2; and
 - (b) a polypeptide consisting of amino acids 453-458 of SEQ ID NO:2.
- 102. (New) The polynucleotide of claim 101, wherein said polynucleotide further encodes a heterologous polypeptide fused to said soluble fragment of SEQ ID NO:2.
- 103. (New) An isolated polypeptide encoded by the polynucleotide of claim 60.
- 104. (New) An isolated polypeptide encoded by the polynucleotide of claim 101.
- 105. (New) An isolated polypeptide encoded by the polynucleotide of claim 102.
- 106. (New) A composition comprising a pharmaceutically acceptable carrier and the polypeptide of claim 71.
- 107. (New) A composition comprising a pharmaceutically acceptable carrier and the polypeptide of claim 104.